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(21) International Application Number: PCT/GB90/00726 (22) International Filing Date: 11 May 1990 (11.05.90) (30) Priority data: 8910880.7 11 May 1989 (11.05.89) GB (71) Applicant (for all designated States except US): AMER-SHAM INTERNATIONAL PLC [GB/GB]; Amersham Place, Little Chalfont, Buckinghamshire HP7 9NA (GB). (72) Inventors; and (75) Inventors/Applicants (for US only) : GARLAND, Peter, Bryan [GB/GB]; Hope Cottage, Sunnyway, Old Bosham, West Sussex PO18 8H0 (GB). HEANEY, Paul, James [GB/GB]; 37 The Lawns, Hatch End, Pinner, Middlesex HA5 4BL (GB). POLLARD-KNIGHT, Denise, Vera [GB/GB]; 4 Drury Road, Harrow, Middlesex HA1 4BY (GB).		(74) Agent: PENNANT, Pyers; Stevens, Hewlett & Perkins, 5 Quality Court, Chancery Lane, London WC2A 1HZ (GB). (81) Designated States: AT (European patent), BE (European patent), CA, CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (European patent), GB (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent), US. Published <i>With international search report.</i>
(54) Title: SEQUENCING METHOD (57) Abstract A method of sequencing a single-stranded nucleic acid chain involves providing an immobilised complex of a template to be sequenced and a primer. This complex is exposed to flow containing only one dNTP at a time. The primer is extended only if the dNTP is complementary to and can hybridise to the next free nucleotide of the template. Each such polymerisation event is detected, preferably directly and by spectroscopic means. Preferred detection techniques include fluorescence detection and absorption spectroscopy (non-evanescent wave) and particularly evanescent spectroscopy e.g. surface plasmon resonance spectroscopy.		

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